

BLOOM ENERGY CORPORATION
1299 Orleans Dr
Sunnyvale, CA 94089
Attn: Brandon Snow

Test Report No: 3710988PP02**Date: 6 August 2015****SAMPLE(S) SUBMITTED**

BY THE CLIENT AS: Bloom Energy Corp., One (1) 4B Unlined Aluminum box with three hose connectors, PG III, as a Design Qualification.

DATE OF RECEIPT: 11 March 2015

TEST PERIOD: 11 – 13 March 2015

TEST(S) REQUESTED: The submitted samples were tested to verify compliance with UN/DOT, IATA, ICAO and IMO Hazardous Materials Distribution and Packaging requirements.

Please be advised that the Samples tested have satisfied the testing requirements and are in conformance with the United Nations/DOT, IATA and IMO packaging regulations, and are eligible to bear the following markings:



4B / Z 82.6 / S / **
USA / +BA1503

This certification is valid for a period of One (1) year from the date of this report. The use of other packaging methods or components may render this report invalid.

SGS NORTH AMERICA INC. IS A CURRENT DOT UN THIRD PARTY CERTIFICATION AGENCY UNDER §107.403

PREPARED BY:

N. Irkiewicz, CPLP
LABORATORY TECHNICIAN

SIGNED FOR AND ON BEHALF OF
SGS North America Inc:

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LABORATORY MANAGER, PACKAGING & MATERIALS
USA / +BA1503

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Part 1 Test Summary^{1, 2}

Tests		Specimen #	Results	#Fail/Total ⁴
a	Drop Test (7 orientations)	1-7	Pass	
b	Leakproofness test	Not Tested		
c1	Hydrostatic pressure capability	Not Tested		
c2	Internal pressure capability	Not Tested		
e	Stack Test	8-10	Pass	
f	Vibration standard	11-13	Pass	

¹ To obtain certification, the sample tested must pass the applicable test for the specific packaging type, intended lading and method of shipment.

² Tests performed, were conducted as per the request of Bloom Energy Corporation.

³ Compatibility of the particular plastics inner container and any hazardous liquid lading must be established before use. (*responsibility of the person offering a hazardous material for transportation*; See 49 CFR §173.24(e)).

⁴ See appendix C for details

Part 2 Test Product Summary

Packaging Category: ☒ Single ☐ Combination ☐ Composite

Physical State: ☐ liquid ☒ Solid ☐ Gas ☐ aerosol

Test Product Used:

For Drop Tests:

Test Product Density:

Solid

Density = 0.597 g/cm³

Actual Product



Photograph 2-1. Actual Load Information

Weight of Tested Product: from Box specimen No. 1

- Total weight of filled (95%)container is 82.6 Kg
- Weight of tested product = 82.6.0 Kg – (box & lid)
- 82.6 kg – 38.7 Kg = 43.9 Kg

Tested Sample (95% fill): Solid The 95% fill mark was calculated as a height using the measured ID of the drum and multiplying by 95%; therefore,

ID x 95% = fill mark (39") x (95%) = 37 in

At no time during transit is the sample pressurized.

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Part 3 Packaging Data Sheet
Section I. Aluminum Box

PACKAGING DESCRIPTION: 4B Unlined Aluminum Box, bottom lid, top lid with steel connectors.

OUTER PACKAGING

CONTAINER – 4B UNLINED ALUMINUM BOX:

Box		Closure(s)		
Manufacture	Bloom Energy Corp.	Manufacture	Bloom Energy Corp.	
	1299 Orleans Drive		1299 Orleans Drive	
	Sunnyvale, CA 94089		Sunnyvale, CA 94089	
Material	Aluminum Alloy	Material:	Aluminum Alloy, steel connectors	
		Number:	2	
Dimensions	12-1/4" x 12-1/4" x 43-1/4" OD	Location:	Top/Bottom (Top only has Steel Connectors)	
		Design:	Lids with Rubber Gasket and 3 fluid connectors	
Height	Overall: 43-1/4"	Dimensions	12-1/4" x 12-1/4" Bottom Lid 12-3/16" x 12-3/16" Top Lid	
	Inner: 39"	Thickness	3/8" Bottom Lid 7/16" Top Lid	
		Weight	4.8 kg	
Thickness	3/16"			
		Closure Gasket – 2 Required	Material	Nitrile Rubber
CLOSURE INSTRUCTIONS	Boxes were packed and sealed as per Bloom Energies DOC-1005188 REV-A and DOC 1005192 REV-A.		Dimensions	12-1/4" x 12-1/4"
			Thickness	1/8"
Tare Entire Box w/ Closure	38.7 kg		Weight	23.2 grams
Tare of Body	27.2 kg	Closure(s)		
		Material:	Steel	
		Number:	17	
		Location:	9 – Bottom lid 8 – Top lid	
		Design:	1" x 5/8" 5mm Hex Bottom Lid 1-1/2" x 1/2" 6mm Hex Top Lid	
		Weight	13.2 grams Bottom Lid 15.8 grams Top Lid	
		Torque	20 nm Bottom Lid 33 nm Top Lid	

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Part 3 Packaging Data Sheet
Section I. Aluminum Box

1) Screen Bottom with Mesh

Required	-	1
Manufacture	-	Bloom Energy Corp. – Sunnyvale, CA 94089
Size	-	11-1/2" x 11-1/2" x 1"
Tare Weight	-	1,377.2 grams

Placed at the bottom of the box.

2) Top Screen with Mesh

Required	-	3
Manufacture	-	Bloom Energy Corp. – Sunnyvale, CA 94089
Size	-	5-5/8" x 5-5/8" x 1-3/4"
Tare Weight	-	407.8 grams

After product is placed in box, these are placed on the top of the box.

3) Top Screen with Mesh

Required	-	1
Manufacture	-	Bloom Energy Corp. – Sunnyvale, CA 94089
Size	-	5-1/2" x 4-1/8" x 2-1/2" Pentagonal Shape 1-3/4" Height
Tare Weight	-	369.7 grams

After product is placed in box, these are placed on the top of the box.

4) Washers

Required	-	9
Manufacture	-	LPS-Bossard P/N BN 762 M8
Size	-	5/8" x 1/16"
Tare Weight	-	1.5 grams

Placed at under the screws before the lid is sealed. One is used for detail 7.

5) Washers

Required	-	9
Manufacture	-	LPS-Bossard P/N BN 715 M8
Size	-	9/16" x 1/16"
Tare Weight	-	1.4 grams

Placed between detail 4 and the screws. One is used for detail 7.

6) Springs

Required	-	12
Manufacture	-	McMaster-Carr P/N 91274A151
Size	-	3" x 15/16"
Tare Weight	-	55.7 grams

Placed on detail 3 in as per photo on page 16.

Part 3 Packaging Data Sheet
Section I. Aluminum Box

- 7) Eyebolt
- | | | |
|-------------|---|---------------------------|
| Required | - | 1 |
| Manufacture | - | McMaster-Carr P/N 4843T13 |
| Size | - | Height 3-1/8" Diameter 1" |
| Tare Weight | - | 84.2 grams |

Placed in the middle of the top lid and hand tighten.

Appendix A

Test Applicability

Pass / Fail results are based on the actual samples, test loads, and quantities described and submitted for testing. Inferring to other materials, other manufactures, other manufacturing processes, other applications, or different container sizes / capacities is not acceptable.

Reference to material specifications is made based either on the information provided by the requester, the manufacturer, or the markings printed on, attached to, or embossed / molded on the packaging.

Testing was performed per Title 49 Code of Federal Regulations; Subtitle B, Other Regulations; Chapter I, Pipeline and Hazardous Materials Safety Administration (Department of Transportation); Subchapter C, Hazardous Materials Regulations; Part 173, Shippers – General Requirements for Shipments and Packaging; Part 173 Subpart A, General; as well as Part 178, Specifications for Packaging; and Part 178 Subpart M, Testing of Non-Bulk Packaging and Packages.

The required performance tests and standards are intended to evaluate the performance of the packaging components. The criteria used to evaluate packaging performance is whether the contents of the packaging are retained within the primary packaging, should damage to the tertiary packaging occur, and if any packaging is damaged so as to affect safe transportation. The successful completion of the required tests does not ensure the undamaged delivery or survivability of the actual contents.

The successful completion of the recommended performance tests does not, by itself, authorize the marking and transportation of any dangerous good(s). Applicable model regulations should be consulted concerning the relationship of the performance testing completed and the dangerous good(s). Before a configuration can be certified by the person(s) authorizing shipment, the appropriate packaging for the particular hazardous freight and mode of transportation must be determined, and the item(s) must be prepared for shipment per applicable regulations. The chosen configuration must have been performance tested in accordance with the size, the shape, and the weight constraints posed by the configuration to be certified. The testing reported herein should not be constructed as a blanket certification of any configuration that simply uses the performance tested package. Packaging paragraphs apply.

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Appendix B

Test Data Sheet

Section I. Test Parameter Calculations / Derivations - Contents

178.602(b)

"For the drop and stacking test, inner and single-unit receptacles other than bags must be filled to not less than 95% of maximum capacity (see § 171.8 of this subchapter) in the case of solids and not less than 98% of maximum in the case of liquids...The material to be transported in the packagings may be replaced by a non-hazardous material..."

§ 178.602(c)

"If the material to be transported is replaced for test purposes by a non-hazardous material, the material used must be of the same or higher specific gravity as the material to be carried,... Water may also be used for the liquid drop test under the conditions specified in § 178.603(e) of this subpart..."

Calculations Statement:

Tested Sample (95% fill): Solid The 95% fill mark was calculated as a height using the measured ID of the box and multiplying by 95%; therefore,

$$\text{ID} \times 95\% = \text{fill mark} \quad (39") \times (95\%) = 37 \text{ in}$$

Appendix C

Testing

Section I. Pre Test Conditions

The samples submitted for certification arrived on March 11, 2015. A total number of 15 fully packed out Boxes were received. After a general inspection was conducted (visual only) it was determined that there was no damage that would adversely affect the testing. Each submitted sample was randomly assigned an identification number in no particular order or sequence.

Pack out instructions for drop testing le: Boxes were filled and sealed at clients facility as per closure instructions.

For the Drop test, all packagings were conditioned to 23°C (73°F) for a minimum of 24 hours prior to testing.

PREPARATION OF PACKAGINGS FOR TESTING

All test samples were exposed to a controlled atmosphere maintained at 73° F - 50% RH for 24 hours.

Section II. Test Discussion and Results

a. Drop Test: See ASTM D 5276

Seven (7) Samples were closed as for shipment and subjected to a free fall drop test from a height of 32 inches onto a solid concrete floor. The Samples were dropped using a Chain and a quick release so as to fall on specified box parts as follows:

- | | | |
|-------|---|--|
| Box 1 | - | Flat on Top |
| Box 2 | - | Flat on Bottom |
| Box 3 | - | Flat on Long SideDiagonally on chime |
| Box 4 | - | Flat on Medium Side |
| Box 5 | - | Flat on Short Side |
| Box 6 | - | 45° Angle Bottom Corner opposite of short side |
| Box 7 | - | 45° angle Top Short Side |

Appendix C (continued)

Testing

Section II. Test Discussion and Results (continued)

a. Drop Test: See ASTM D 5276

RESULTS:

Examination of each of the seven (7) Samples upon completion of the free fall drop test revealed deformation but no leakage of product from the boxes. The closure remained firmly affixed to the boxes, both components remained securely closed. The packaging will continue to provide adequate protection for further handling.

Spec #	Height (in)	Date	Ambient Test Conditions ¹	Orientation	Results ¹
1	32"	11 March 2015	73° F 50% RH	Flat on Bottom	Pass - No breakage or leakage; slight deformation at point of impact
2	32"	11 March 2015	73° F 50% RH	Flat on Top	Pass - No breakage or leakage; slight deformation at point of impact
3	32"	11 March 2015	73° F 50% RH	Flat on Long Side	Pass - No breakage or leakage; slight deformation at point of impact
4	32"	11 March 2015	73° F 50% RH	Flat on Medium Side	Pass - No breakage or leakage; slight deformation at point of impact
5	32"	11 March 2015	73° F 50% RH	Flat on Short Side	Pass - No breakage or leakage; slight deformation at point of impact
6	32"	11 March 2015	73° F 50% RH	45° Angle Bottom Corner opposite of short side	Pass - No breakage or leakage; slight deformation at point of impact
7	32"	11 March 2015	73° F 50% RH	45° Angle Top Short Side Corner	Pass - No breakage or leakage; slight deformation at point of impact

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Appendix C (continued)**Testing****Section II. Test Discussion and Results (continued)****d. Stack Test:** See ASTM D 4577

Three Samples were closed as for shipment and subjected to a static compression test under a load equivalent to a 10-foot high stack of identical packages. The load applied to the top surface of the Samples was calculated to be 323 pounds.

The static compression load was allowed to stand for 24 hours at ambient conditions.

RESULTS:

Examination of each of the three (3) Samples throughout the stacking test period did not reveal any leakage from the seams or closures that could adversely affect transport safety. The stacking stability of the Samples remained unchanged throughout the 24-hour stacking period.

e. Vibration Test: See ASTM D 999

Three (3) Samples were placed on the table of a rotary vibration tester and vibrated at an acceleration of 1G+ for a period of 60 minutes at 190 cycles per minute.

RESULTS:

Examination of each of the three (3) Samples throughout the stacking test period did not reveal any leakage from the welds or closures that could adversely affect transport safety.

f. Compatibility Testing - Responsibility of the person offering a hazardous material for transportation; See 49 CFR §173.24(e). Not tested.

Appendix C (continued)

Testing

Section II. Test Discussion and Results (continued)

g. CALCULATIONS

$$\text{Stacking Load, lbs} = ((120 / H) - 1) \times (GM \times 2.2)$$

where

120 = Stacking Height, inches
H = Package Height, inches
GM = Gross Mass, Kg (Mark)

Gross Weight	82.6
Package Height	43.25"
Applied Load, Lbs	323

Appendix C (continued)

Testing

Section II. Test Discussion and Results (continued)

h. COMMENTS

- ◆ The filled and closed Samples were found to satisfy the drop, stacking and vibration test requirements and would provide adequate protection for further handling.
- ◆ As per US DOT Reference No. 15-0074 this 4B Aluminum Box does not need a inner liner.
- ◆ The appropriate United Nations marking for the metal box should be

<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center; width: 10px;">u</div> <div style="text-align: center; width: 10px;">n</div> </div>	4B / Z 82.6 / S / ** USA / +BA1503
---	---------------------------------------

4B	-	Packaging Type Code
Z	-	Packaging Group
82.6	-	Gross Mass (kg)
S	-	Solid (inner packaging)
**	-	Year of Manufacture
USA	-	Country Where Testing Performed
+BA1503	-	3 rd Party Testing Agency & Test No.

It should be noted that the packages **must** be imprinted with the appropriate proper shipping name, hazard class and product identification number. It is the shipper's responsibility to ensure that all applicable regulations are followed, and that the packaging design type is adequate to type of material to be carried and the mode of transportation used. The +BA mark may not be used by any other third party laboratory recertifying this package.

CONCLUSION

Based upon the above results, the test Samples have satisfied the requirements of Section 6 of the United Nations Recommendations on the Transport of Dangerous Goods Model Regulations and the DOT, IATA, ICAO and IMO packaging specifications and performance tests.

Appendix C (continued)

Testing

Section II. Test Discussion and Results (continued)

j. UN/ICAO CERTIFICATION REPORT

SGS NORTH AMERICA INC.

291 Fairfield Avenue Fairfield, NJ 07004
Phone: (973) 575-5252 Fax: (973) 575-8271

Lab ID: +BA **Report No.:** 3710988PP02 **Certification No.:** +BA1503 **Expiration Date:** 6 August 2016

Package Identification: Catalina Canisters

Company: Bloom Energy Corp. **Date Tested:** 11 – 13 March 2015

Address: 1299 Orleans Drive **City:** Sunnyvale **State:** CA **Zip:** 94089

Description of Packaging

Packaging Type Code: 4B **Packaging Nomenclature:** Unlined Aluminum Box

Size (OD): 12-1/4" x 12-1/4" x 43-1/4" OD

4B Unlined Aluminum Box, bottom lid, top lid with steel connectors.

Testing Environment

Temperature: 73° F **RH:** 50%

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Appendix C (continued)

Testing

Section II. Test Discussion and Results (continued)

TEST PROCEDURES

Drop Test: Pass: X Fail:

No. of Samples: 7 Drop Height: 32" Packaging Group: Z

Stacking Test: Pass: X Fail:


No. of Samples: 3 Load: 323 Duration: 24 Hrs.

Vibration Test: Pass: X Fail:


No. of Samples: 3 Frequency: 190 CPM Duration: 60 Min.

RESULTS AND COMMENTS

The test samples submitted have satisfied the requirements of the UN/DOT, IATA and IMO Transportation of Dangerous Goods Regulations and are authorized to bear the following markings:


 4B / Z 82.6 / S / **
 USA / +BA1503

I certify that the samples were tested in accordance with applicable procedures as set forth in the United Nations Recommendations of the Committee of Experts on the Transportation of Dangerous Goods Model Regulations, Chapter 6, and that the results are true and valid for the material tendered.



Jason Sherrier, CPLP
Laboratory Manager, Packaging & Materials
SGS North America Inc.

Appendix D

References

Section I. Test Personnel

The following personnel performed the following tasks:

Nikolaus Irkliewskij - Testing
 Jason Sherrier - Supervised Testing

Section II. Test References

- a. **Title 49 Code of Federal Regulations, Parts 106-180, (current as of October 1, 2014)**
- b. **ASTM D 4919**, Standard Guide for Testing of Hazardous Materials Packagings
- c. **ASTM D 5276**, Standard Test Method for Drop Test of Loaded Containers by Free Fall
- d. **ASTM D 4332**, Standard Practice for Conditioning Containers, Packages, or Packing Components for Testing.

Section III. Equipment

Item	Manufacturer	Serial No.	Calibration Date
50,000 Compression Machine	Lansmont	152-50-13880	1-July-2015
Temp / Hum Chart Recorder	Extech	07150222	8-Jan-2015
Vibration Table	L.A.B.	241180	22-Apr-2015
Balance	Satorious	13602762	14-Oct-2014

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Appendix E
Additional Information
Section I. Pictures



Packout Picture

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Appendix E (continued)

Additional Information

Section I. Pictures (continued)



Vibration Test

(Three tested only two shown.)

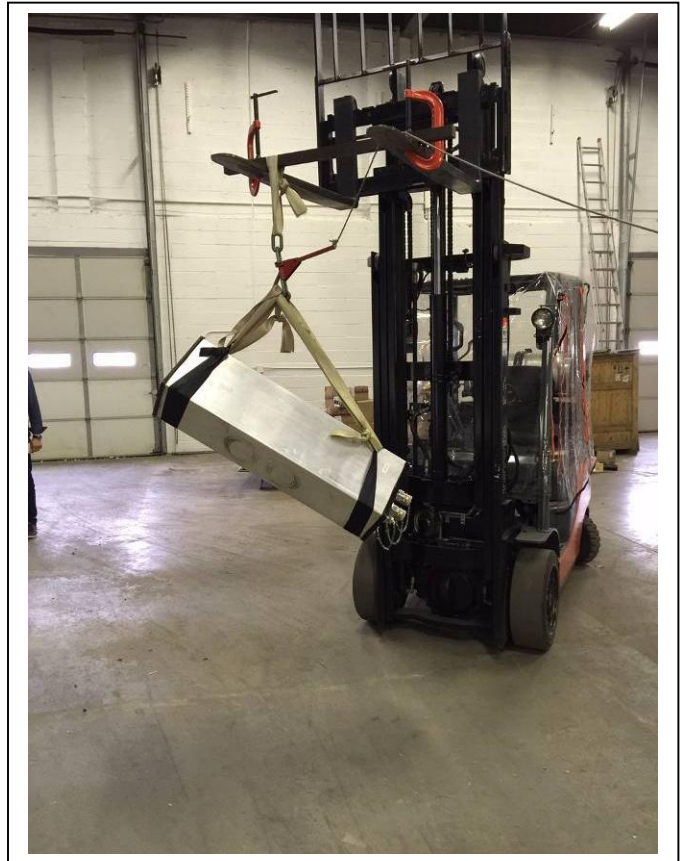
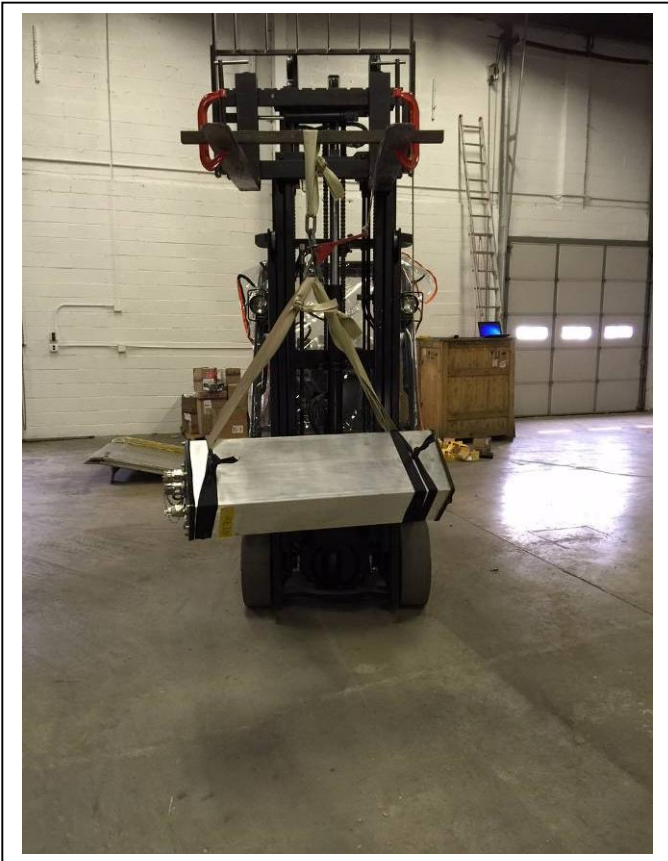


Stacking Test

Appendix E (continued)

Additional Information

Section I. Pictures (continued)



Drop Test

(Two Shown, Seven Dropped)

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Appendix E

Additional Information

Section II. Box / Bottle / Cap – Pictures/Drawings

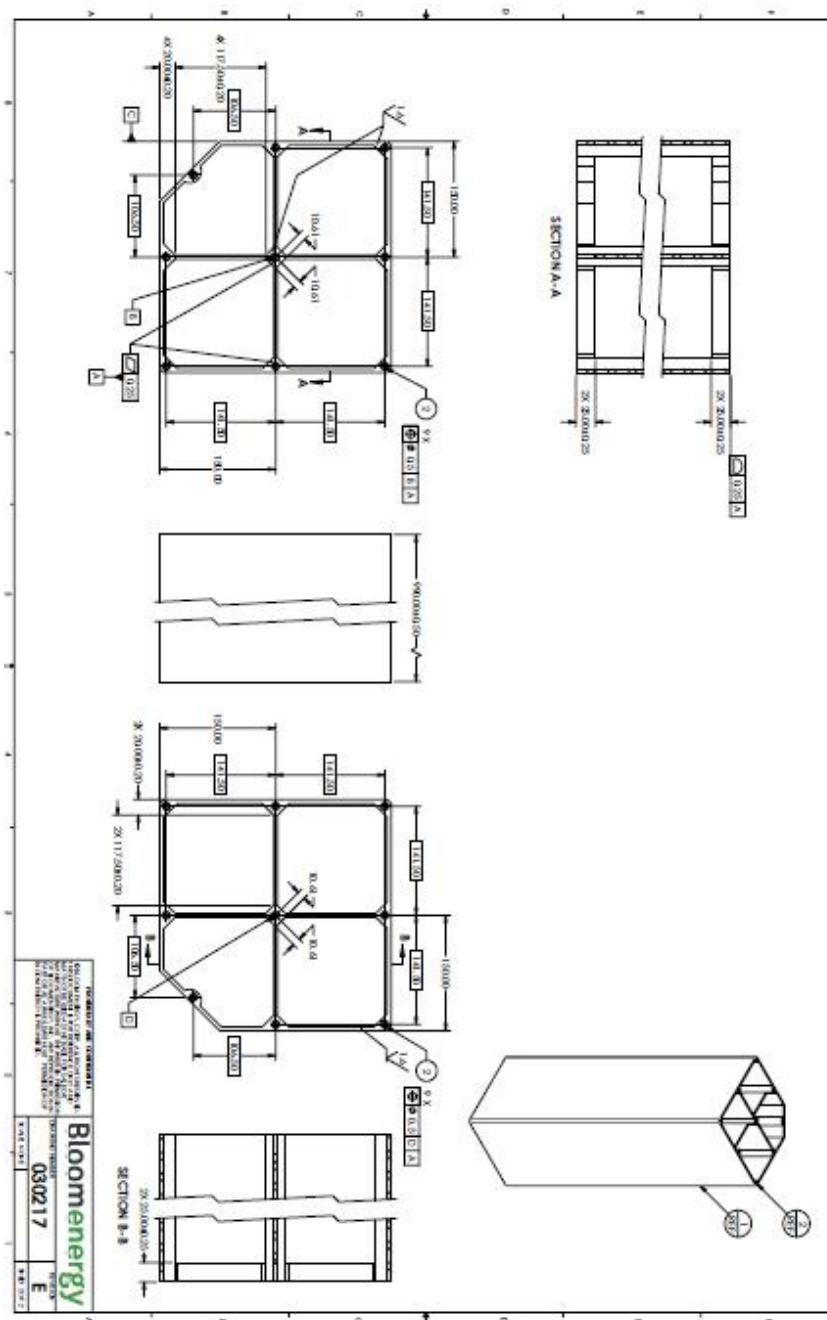
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Appendix E

Additional Information

Section II. Box / Bottle / Cap – Pictures/Drawings

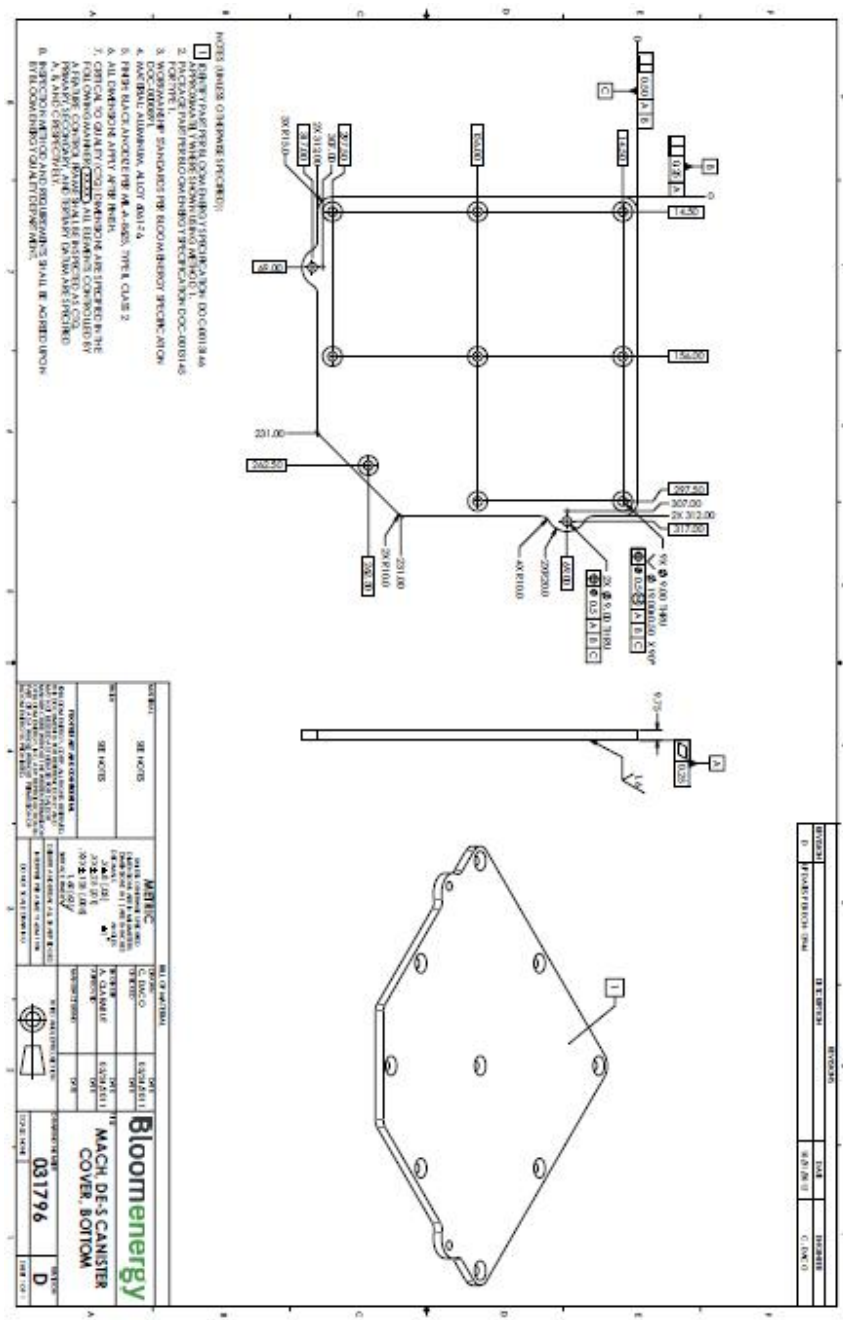


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Section II. Box / Bottle / Cap – Pictures/Drawings

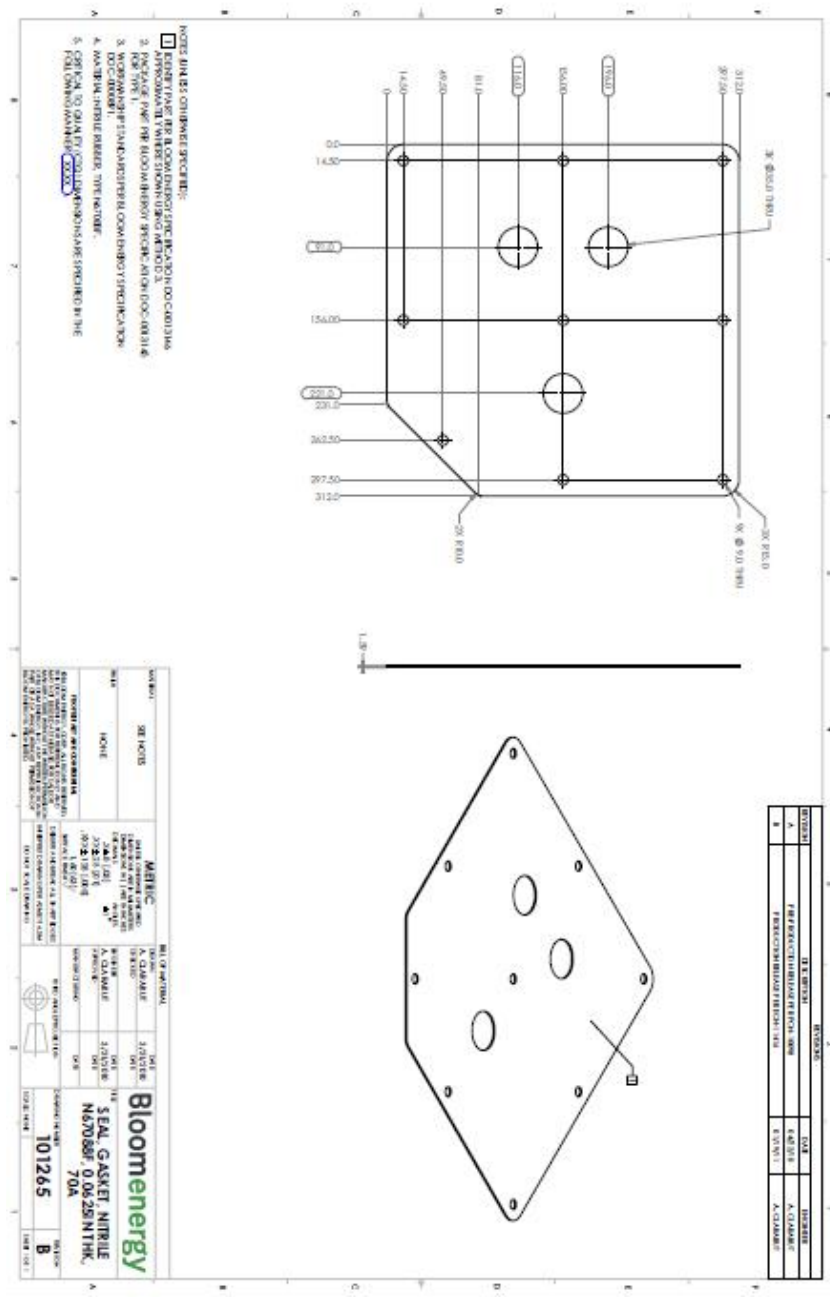


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Section II. Box / Bottle / Cap – Pictures/Drawings

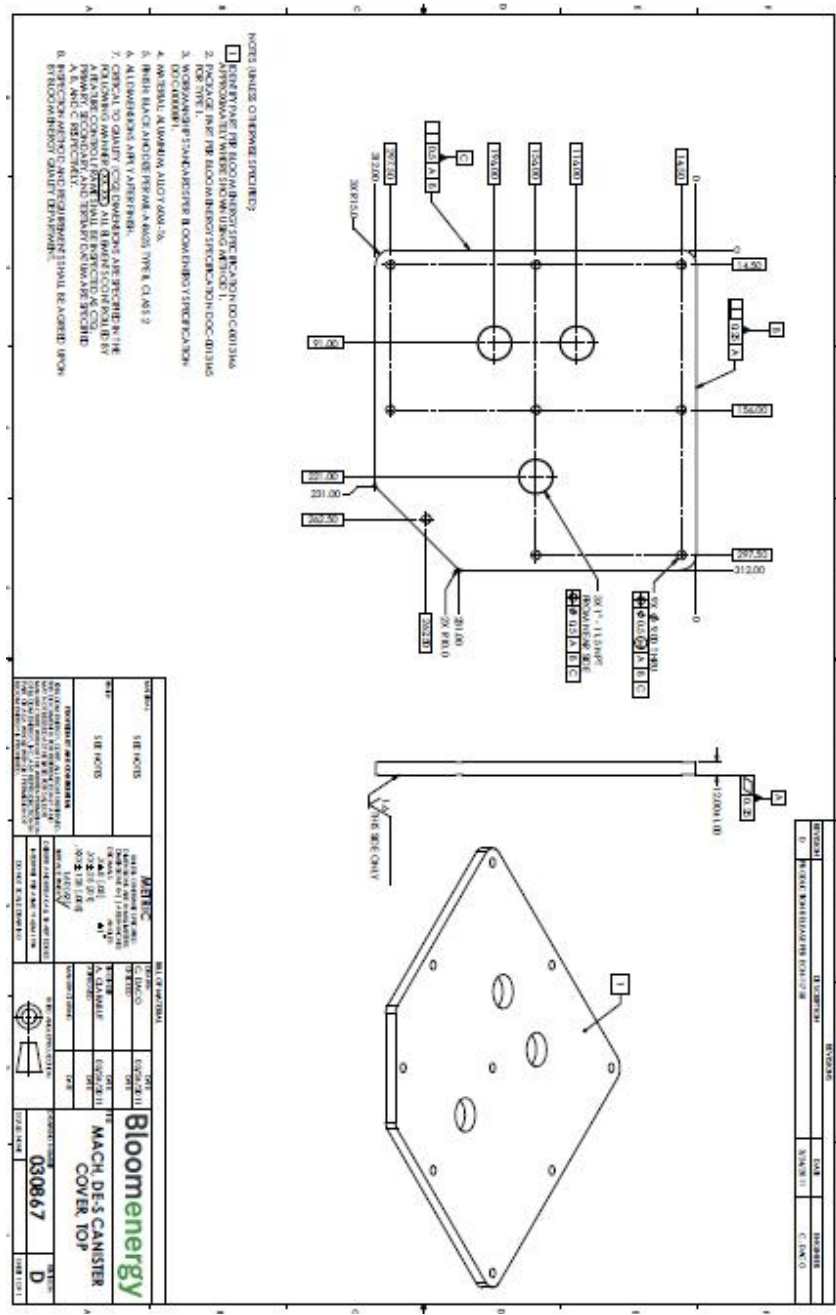


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Section II. Box / Bottle / Cap – Pictures/Drawings

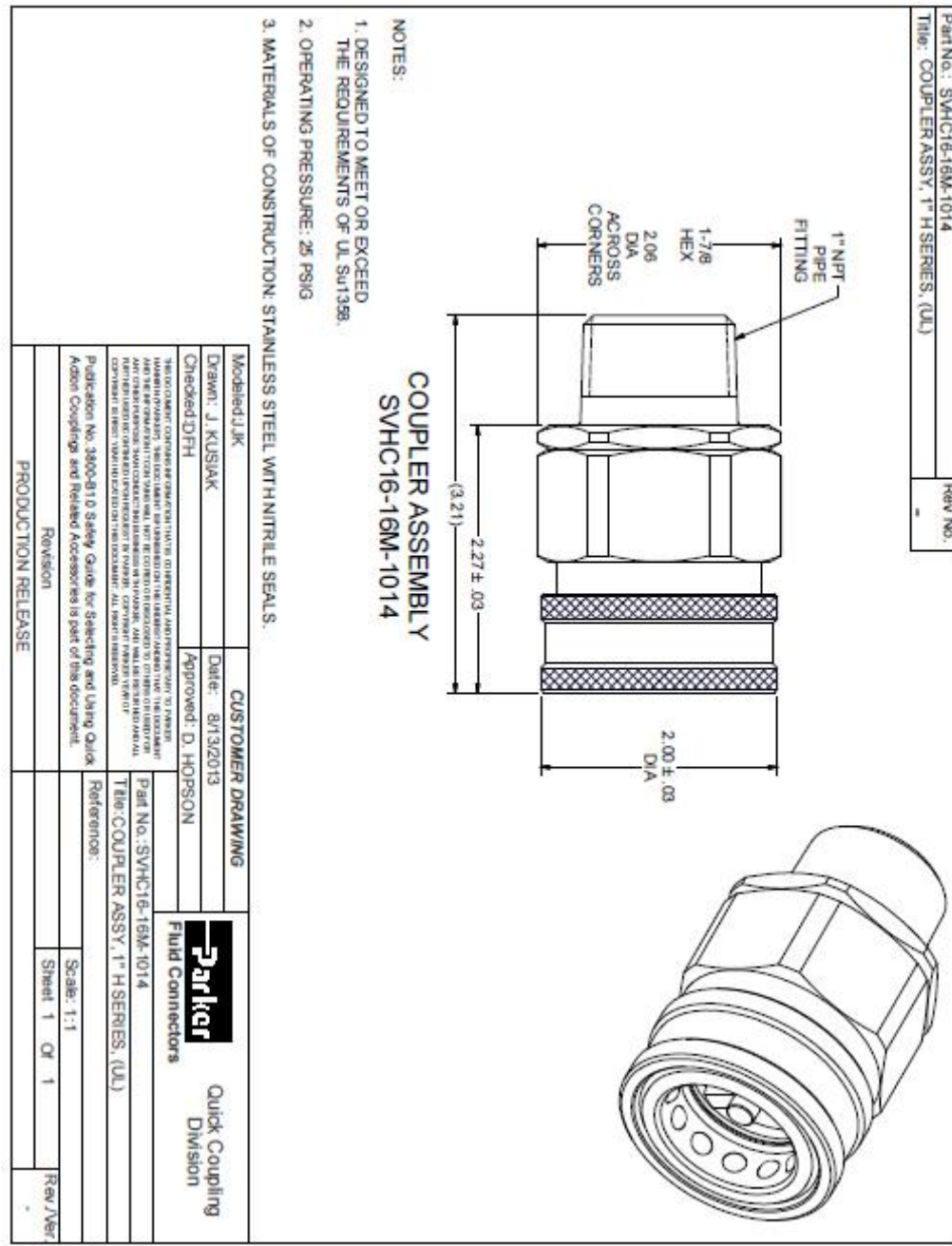


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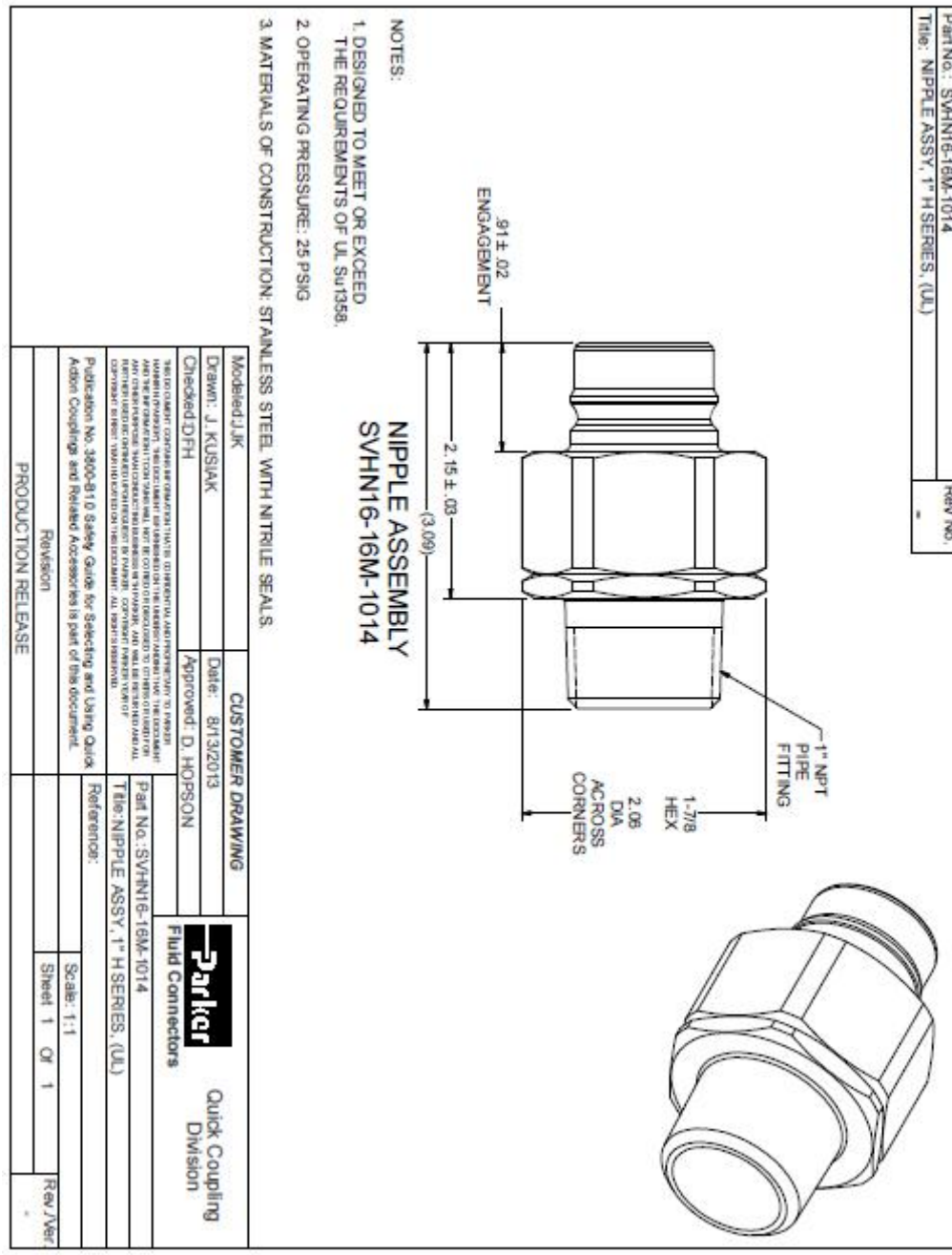
Section II. Box / Bottle / Cap – Pictures/Drawings



Appendix E

Additional Information

Section II. Box / Bottle / Cap – Pictures/Drawings



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